

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Previously Presented) A method for routing a message from a first mobile station to a second mobile station, comprising:

receiving a routing request from a third party for routing a message from the first mobile station to the second mobile station, the routing request being received by an intermediary, wherein the intermediary operates neither a physical home location register (HLR) nor a physical mobile switching center (MSC);

determining to which carrier the second mobile station subscribes;

dynamically creating an artificial International Mobile Subscriber Identity (IMSI) value based, at least in part, on the carrier to which the second mobile station subscribes; and

returning a routing response from the intermediary to the third party for routing the message from the first mobile station to the second mobile station, the routing response including the artificial IMSI value, such that the intermediary is considered, from the point of view of the third party, a mobile switching center,

wherein the steps of receiving and returning employ SS7.

2. (Original) The method according to claim 1, wherein the mobile switching center is a virtual mobile switching center.

3. (Original) The method according to claim 1, wherein determining to which carrier the second mobile subscribes includes performing a lookup of the second mobile station against a database including a plurality of mobile stations associated with a plurality of carriers so that the intermediary functions as a virtual home location register.

4. (Original) The method according to claim 1, wherein the second mobile station is a domestic mobile station, and the carrier to which the second mobile station subscribes and the intermediary are in geographic proximity.

5. (Original) The method according to claim 4, wherein the first mobile station is an international mobile station and a carrier associated with the first mobile station is on a Global System for Mobile Communication (GSM) network.

6. Cancelled

7. (Previously Presented) A method for routing a Global System for Mobile Communication (GSM) Mobile Application Part (MAP) Send Routing Info for Short Message (SRI for SM) message from a third party in connection with sending a message from a first mobile station on a GSM network to a second mobile station, comprising:

receiving a routing request from the third party for routing a message from the first mobile station to the second mobile station, the routing request being received by an intermediary via a SS7 network;

determining to which carrier the second mobile station subscribes;

dynamically creating an artificial International Mobile Subscriber Identify (IMSI) value based, at least in part, on the carrier to which the second mobile station subscribes; and

returning a routing response from the intermediary to the third party for routing the message from the first mobile station to the second mobile station, the routing response including the artificial IMSI value, such that the intermediary is considered, from the point of view of the third party, as a mobile switching center.

8. (Original) The method according to claim 7, wherein the mobile switching center is a virtual mobile switching center.

9. (Original) The method according to claim 7, wherein determining to which carrier the second mobile subscribes includes performing a lookup of the second mobile station against a database including a plurality of mobile stations associated with a plurality of carriers, whereby the intermediary functions as a virtual home location register.

10. (Original) The method according to claim 7, wherein the second mobile station is a domestic mobile station and the carrier to which the second mobile station subscribes and the intermediary are in geographic proximity.

11. (Previously Presented) An intermediary comprising:

a virtual network device configured to receive routing requests from third parties for routing a message from one mobile station to another mobile station and to return routing responses to the third parties; and

a gateway interface device including a database storing a plurality of mobile station identifiers associated with a plurality of carriers, the gateway interface device being configured to perform a lookup to determine to which carrier the second mobile subscribes when provided a specific mobile station identifier and to return the carrier associated with the specific mobile station identifier, the gateway interface device being configured to create an artificial International Mobile Subscriber Identity (IMSI) value based, at least in part, on the associated carrier and to provide to the virtual network device the artificial IMSI value such that the intermediary appears, from the point of view of third parties, as a mobile switching center, and wherein the virtual network device and the gateway interface device communicate such that, from the point of view of third parties, the intermediary appears to operate a HLR and a MSC.

Serial No.: 10/724,106
Art Unit: 2682

Attorney's Docket No.: INP0006-US
Page 6

12. (Original) The system according to claim 11, wherein the intermediary periodically uploads information including mobile station identifiers of carriers supported by the intermediary to the third parties.